

**According to International Patent Classification (IPC) or to both national classification and IPC**

### B. FIELDS SEARCHED

**Minimum documentation searched (classification system followed by classification symbols)**

IPC 7 A63B A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

**EPO-Internal, WPI Data**

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 678 348 A (ZIELINSKI ROBERT ANTHONY ET AL) 21 October 1997 (1997-10-21) cited in the application	1-11
Y	column 3, line 7 -column 4, line 52 column 5, line 57 - line 65; figures 1-3	12
Y	US 4 616 749 A (BRIGGS CYRIL F) 14 October 1986 (1986-10-14) cited in the application column 2, line 38 -column 3, line 57; figure 1	12
A	US 6 032 999 A (YOCKEY STEVE ET AL) 7 March 2000 (2000-03-07) the whole document	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- "A"** document defining the general state of the art which is not considered to be of particular relevance
- "E"** earlier document but published on or after the international filing date
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- "O"** document referring to an oral disclosure, use, exhibition or other means
- "P"** document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "Z" document member of the same patent family

Date of the actual completion of the international search

**8 Apr11 2004**

Date of mailing of the international search report

**20/04/2004**

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# INTERNATIONAL SEARCH REPORT

Int. nat. Application No  
PCT/GB 03/05282

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 199 00 252 C (LUDEWIG MAX) 20 January 2000 (2000-01-20) the whole document	1
A	US 2 791 255 A (OGDEN URBAN L) 7 May 1957 (1957-05-07) the whole document	1

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05282

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5678348	A	21-10-1997	NONE	
US 4616749	A	14-10-1986	NONE	
US 6032999	A	07-03-2000	NONE	
DE 19900252	C	20-01-2000	DE 19900252 C1	20-01-2000
US 2791255	A	07-05-1957	NONE	